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This Docket Index is up-to-date as of 8/10/98

#### MASTER INDEX: DOCKET A-97-10

Tier 2 Study to Assess Further Reduction in Light-Duty Vehicle & Light-Duty Truck Tailpipe Emission Standards

#### Subject Matter

- I. Notice of Intent or ANPRM (if any)
- II. Items Considered in Developing Proposal
- III. Proposal
- IV. Additional Items Considered After Proposal in Developing Final Rule
- V. Final Action

Updated August 11, 1998

#### Category II-A: EPA Studies or Contractor Reports

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<u>Document</u> Number	<u>Date Rcvd</u> in Docket	Commentor, Addressee, Title or Description, etc.	<u>Date of</u> Document
II-A-01	4-23-98	Draft Tier 2 Study	4-23-98
II-A-02	4-24-98	Methodology for Modifying MOBILE5b in the Tier 2 Study	4-98
II-A-03	5-21-98	Final Report "Benefits & Costs of Potential Tier 2 Emission Reduction Technologies"	11-97
II-A-04	7-27-98	Final Draft Report "Re- Estimation of Refining Cost of Reformulated Gasoline NOx Control"	2-26-97
II-A-05	7-27-98	Final Report "Costs of Alterna-tive Sulfur Content Standards for Gasoline in PADDs 1-3"	2-5-98
II-A-06	7-27-98	MOBILE6 Workshop Handout	10-1-97
II-A-07	7-27-98	Draft Report "Determination of Hot Running Emissions From FTP Bag Emissions"	4-30-98
II-A-08	7-27-98	Draft Report "Air Conditioning Correction Factors in MOBILE6"	3-12-98
II-A-09	7-27-98	Draft Report "Air Conditioning Activity Effects in MOBILE6"	1-26-98
II-A-10	7-27-98	Report "VMT & Emission Implications of Growth in Light Truck Sales"	Undated
II-A-11	7-27-98	Draft Report "Ozone Transport Assessment Group (OTAG) Emissions Inventory Development Report - Volume III: Projections & Controls"	6-97

#### **Category II-A: EPA Studies or Contractor Reports**

<u>Document</u> Number	<u>Date Rcvd</u> in Docket	Commentor, Addressee, Title or Description, etc.	<u>Date of</u> Document
II-A-12	8-3-98	Final Report"Costs of Producing Gasolines with Low Sulfur Content" a study performed for Americam Automobile Manufacturers Association by MathPro Inc.	4-28-97
II-A-13	8-3-98	Tier 2 Study White Paper	4-97
II-A-14	8-4-98	Tier 2 Report to Congress	7-98

**Category II-A: EPA Studies or Contractor Reports** 

#### Category II-B: EPA Factual Memorandum

	<u>Date Rcvd</u> in Docket	Commentor, Addressee, Title or Description, etc.	<u>Date of</u> Document
II-B-01	6-2-98	D. Korotney, EPA, to S. Willis, EPA, re "A Review of Current & Historical Nonroad Diesel Fuel Sulfur Levels"	3-3-98

#### Category II-C: EPA Correspondence to Outside Persons

<u>Document</u> Number	<u>Date Rcvd</u> in Docket	Commentor, Addressee, Title or Description, etc.	<u>Date of</u> Document
II-C-01	5-16-97	Federal Register, Vol. 62, #72, page 18346 [FR-5812-1] - Notice of availability/public workshop	4-15-97

<u>Document</u> Number	<u>Date Rcvd</u> in Docket	Commentor, Addressee, Title or Description, etc.	<u>Date of</u> Document
II-D-01	5-16-97	S. Becker, State & Territoral Air Pollution Program Administrators (STAPPA) & Association of Local Air Pollution Control Officials (ALAPCO)	4-23-97
II-D-02	5-16-97	G. Esper, American Automobile Manufacturers Association (AAMA)	4-23-97
II-D-03	5-16-97	G. Herwick, Ford Motor Company, presentation on CRC/EPA Emissions Program	4-23-97
II-D-04	5-16-97	P. Pierz, Ricardo's North American Technical Center	4-23-97
II-D-05	5-16-97	W. Kreucher, Ford Motor Company, presentation on AAMA/AIAM Sulfur Test Program	4-23-97
II-D-06	6-29-97	B. Stanton, Manufacturers of Emission Controls Association (MECA), presentation on Advanced Emission Control Technologies for Gasoline-Powered Passenger Cars & Light-Duty Trucks	4-23-97
II-D-07	6-2-97	M. Thomas & J. DeCicco, American Council for an Energy-Efficient Economy, to J. Markey, EPA	4-21-97
II-D-08	5-5-97	U. Trueman, State of Utah	4-30-97
II-D-09	12-11-97	B. Carhart, Ozone Transport Commission, to M. Oge, EPA	9-5-97

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II-D-10	11-18-97	U. Sternfels, National Petroleum Refiners Association, to R. Wilson, EPA	9-29-97
II-D-11	10-9-97	R. Kimish, AAMA, & G. Dana, AIMA, to J. Elston, NJ Dept. of Environmental Protection, & R. Baldwin, Ventura County Air Pollution, re draft STAPPA/ALAPCO resolution to reduce gasoline sulfur	10-9-97
II-D-12	12-12-97	MECA report "The Impact of Gasoline Fuel Sulfur on Catalytic Emission Control Systems"	10-97
II-D-13	12-12-97	D. Teague, Chrysler Corporation, presentation on "LDV Diesels"	11-25-97
II-D-14	6-2-98	Auto/Oil Air Quality Improvement Research Program, Technical Bulletin #2, "Effects of Fuel Sulfur Levels on Mass Exhaust Emissions"	Undated
II-D-15	6-2-98	"API/NPRA/EPA Meeting - Tier 2 Sulfur Control Cost- Effectiveness"	3-10-98
II-D-16	6-2-98	T. Hogan, American Petroleum Institute, with report "Potential for Improved Sulfur Tolerance in 3-Way Automotive Catalysts	11-26-97
II-D-17	6-2-98	API/NPRA Sulfur Recommendations	3-20-98

<u>Document</u> Number	<u>Date Rcvd</u> in Docket	Commentor, Addressee, Title or Description, etc.	<u>Date of</u> Document
II-D-18	6-2-98	MECA, "The Impact of Gasoline Fuel Sulfur on Catalytic Emission Control Systems"	10-10-97
II-D-19	6-2-98	H. Gandhi, Ford Research Laboratory, presentation on "Effect of Fuel Sulfur on Automotive Three Way Catalysts"	9-11-97
II-D-20	6-2-98	C. Bartholomew, Brigham Young University, presentation on "Sulfur Tolerant Catalysts in Non-Automotive Applications"	Undated
II-D-21	6-2-98	R. Boltz, Chrysler Corporation, presentation on "What's Coming - Emission Control Standards & Technology"	Undated
II-D-22	6-2-98	Ernst & Young WrightKillen, presentation on "Low Sulfur Gasoline Implementation Issues"	8-20-96
II-D-23	6-2-98	M. Tushingham, Environment Canada, discussion paper on "International Activities Directed at Reducing Sulphur in Gasoline & Diesel"	1997
II-D-24	6-2-98	F. Potter, Information Resources, Inc., to M. Oge, EPA, re European Parliament Passes Tight Fuel Specifications	2-18-98
II-D-25	6-2-98	Idemitsu Kosan Co., Ltd., re "Clean Air Program in Japan"	12-97

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<u>Document</u> Number	<u>Date Rcvd</u> in Docket	Commentor, Addressee, Title or Description, etc.	<u>Date of</u> Document
II-D-26	6-2-98	G. Herwick, Public Policy Center, EPA Workshop on Gasoline Sulfur presentation	5-12-98
II-D-27	6-2-98	B. Cooper, Johnson Matthey, "Sulfur Recoverability Study" presentation	5-12-98
II-D-28	6-2-98	J. Mardock, Clean Air Network, EPA Workshop on Gasoline Sulfur presentation	5-12-98
II-D-29	6-2-98	B. Bertelsen, MECA, EPA Workshop on Gasoline Sulfur presentation	5-12-98
II-D-30	6-2-98	A. Early, Environmental Consultant, on behalf of American Lung Association, EPA Workshop on Gasoline Sulfur presentation	5-12-98
II-D-31	6-2-98	Honda, EPA Workshop on Gasoline Sulfur presentation	5-12-98
II-D-32	6-2-98	S. Becker, STAPPA/ALAPCO, EPA Workshop on Gasoline Sulfur presentation	5-12-98
II-D-33	6-2-98	API/NPRA, EPA Workshop on Gasoline Sulfur presentation	5-12-98
II-D-34	6-2-98	J. Shipinski, Toyota, EPA Workshop on Gasoline Sulfur presentation	5-12-98
II-D-35	6-2-98	L. Beard, Chrysler Corporation, EPA Workshop on Gasoline Sulfur presentation	5-12-98
II-D-36	6-2-98	J. Fisher, U.S. Section Internal Joint Commission	5-12-98

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II-D-37	4-28-98	D. Saunders, private citizen, Beaverton, OR	4-18-98
II-D-38	5-5-98	S. Cowls, private citizen, New York, NY	4-24-98
II-D-39	5-11-98	R. Brooks, member, Ward's Engine Update, Waukegan, IL	5-7-98
II-D-40	5-11-98	H. Gilbreath, private citizen	5-7-98
II-D-41	5-26-98	N. Kerby, private citizen	5-14-98
II-D-42	5-26-98	C. Imbach, private citizen	5-14-98
II-D-43	5-27-98	L. Tunick, Coalition of Small Volume Automobile Manufacturers, Inc., Golden, CO	5-19-98
II-D-44	6-8-98	Manufacturers of Emission Controls Association	6-5-98
II-D-45	6-9-98	C. Thompson, Wisconsin Dept. Of Transportation, Madison, WI	6-3-98
II-D-46	6-10-98	M. Coleman, State of Oklahoma, Oklahoma City, OK	5-29-98
II-D-47	6-11-98	S. Lynch, Northeast Alternative Vehicle Consortium, Boston, MA	6-12-98
II-D-48	6-12-98	American Council for an Energy Efficient Economy, etal.	6-12-98
II-D-49	6-12-98	J. Elston, STAPPA, & R. Baldwin, ALAPCO, Washington, DC	6-12-98
II-D-50	6-12-98	R. King, State of Alaska, Juneau, Alaska	6-12-98

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II-D-52	6-12-98	B. Carhart, Ozone Transport Commission, Washington, DC	6-12-98
II-D-53	6-12-98	C. Johnson, New York State Department of Environmental Control, Albany, NY	6-12-98
II-D-54	6-12-98	D. Greenhaus, National Automobile Dealers Association, McLean, VA	6-12-98
II-D-55	6-12-98	N. Fujii, Nissan North America, Inc., Washington, DC	6-12-98
II-D-56	6-12-98	U. Sternfels, National Petroluem Refiners Assn., Washington, DC	6-12-98
II-D-57	6-12-98	K. Harun, Alaska Center for the Environment, etal. (22 total)	6-12-98
II-D-58	6-12-98	J. Bunyak, U.S. Department of the Interior, Denver, CO	6-12-98
II-D-59	6-12-98	A. Early, American Lung Association, Washington, DC	6-12-98
II-D-60	6-12-98	W. Flis, Exxon Company, U.S.A., Houston, TX	6-12-98
II-D-61	6-12-98	B. Ethridge, International Center for Technology Assessment & Campaign on Auto Pollution, Washington, DC	6-12-98
II-D-62	6-12-98	G. Dana, AIAM, Arlington, VA	6-12-98
II-D-63	6-12-98	T. Coxe, Commonwealth of Massachusetts, Boston, MA	6-12-98

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II-D-65	6-12-98	M. Block, EMA, Chicago, IL	6-12-98
II-D-66	6-17-98	Environmental Advocates to K. Simon, EPA	6-11-98
II-D-67	6-17-98	P. Batt, State of Idaho, Boise, Idaho	6-3-98
II-D-68	6-12-98	J. Hubbard, Maryland State House of Delegates	6-11-98
II-D-69	6-12-98	M. Thomas, American Council for Energy Efficient Economy; J. Hathaway, Natural Resources Defense Council; R. Hwang, Union of Concernede Scientists	6-12-98
II-D-70	6-12-98	Sinclair Oil Corporation, Salt Lake City, UT	6-12-98
II-D-71	6-12-98	R. Babik, AAMA, Washington, DC	6-12-98

#### Category II-E: EPA Memorandua of Meeting/Telephone Conversations with Outside Persons

<u>Document</u> Number	<u>Date Rcvd</u> in Docket	Commentor, Addressee, Title or Description, etc.	<u>Date of</u> Document
II-E-01	6-3-98	Final Agenda, EPA Workshop on Gasoline Sulfur	5-12-98
II-E-02	6-3-98	Attendance List, EPA Workshop on Gasoline Sulfur	5-12-98
II-E-03	6-3-98	Presentation "EPA Staff Paper on Gasoline Sulfur Issues," EPA Workshop on Gasoline Sulfur	5-12-98

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II-G-01		Moved to II-D	
II-G-02		Moved to II-D	
II-G-03		Duplicate of II-D-68	
II-G-04	6-19-98	F. Ohya, Toyota Technical Center, U.S.A., Inc., Ann Arbor, MI	6-12-98
II-G-05	6-24-98	M. Block, Engine Manufacturers Association, Chicago, IL	6-24-98
II-G-06	6-25-98	R. King, Sun Company, Inc. (Sunoco), Philadelphia, PA	6-12-98
II-G-07		Duplicate of II-G-05	
II-G-08	8-3-98	M. Thomas, American Council for Energy Efficient Economy; J. Hathaway, Natural Resources Defense Council; R. Hwang, Union of Concerned Scientists	6-24-98
II-G-09	7-27-98	J. Colucci, Automotive Fuels Consulting, Inc., Clarkston, MI	5-12-98
II-G-10	7-27-98	<u>Internet Mail</u> - Athavale family, private citizens	6-29-98
II-G-11	7-27-98	R. Bennett, private citizen	6-28-98
II-G-12	7-27-98	K. Biesanz, private citizen	6-29-98
II-G-13	7-27-98	R. Blain, private citizen	6-27-98
II-G-14	7-27-98	J. Boren, private citizen	6-27-98
II-G-15	7-27-98	C. Chase, Sierra Club Chair	6-26-98
II-G-16	7-27-98	K. Chruscielski, private citizen	6-26-98

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II-G-17	7-27-98	T. Dirks, private citizen	6-26-98
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II-G-22	7-27-98	L. Hagar, private citizen	6-26-98
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II-G-24	7-27-98	G. Hayden, private citizen	6-26-98
II-G-25	7-27-98	T. Huey, private citizen	6-29-98
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II-G-27	7-27-98	S. Hwang, private citizen	6-27-98
II-G-28	7-27-98	K. Ingham, private citizen	6-26-98
II-G-29	7-27-98	K. Jones, private citizen	6-25-98
II-G-30	7-27-98	S. Kendall, private citizen	6-29-98
II-G-31	7-27-98	J. Kerler, private citizen	6-28-98
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II-G-33	7-27-98	E. Lee, private citizen	6-27-98
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II-G-35	7-27-98	C. Mayer, private citizen	6-26-98
II-G-36	7-27-98	M. McPhail, private citizen	6-30-98
II-G-37	7-27-98	J. Mera, Jr., private citizen	6-27-98
II-G-38	7-27-98	C. Messick, private citizen	6-24-98

<u>Document</u> Number	<u>Date Rcvd</u> in Docket	Commentor, Addressee, Title or Description, etc.	<u>Date of</u> Document
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II-G-40	7-27-98	L. Nielsen, private citizen	6-26-98
II-G-41	7-27-98	<u>Letter</u> - M. Opie, private citizen, Del Mar, CA	6-26-98
II-G-42	7-27-98	<u>Internet Mail Continued</u> - Reilly family, private citizens	6-26-98
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II-G-44	7-27-98	P. Rose, private citizen	6-29-98
II-G-45	7-27-98	Sams family, private citizens	6-26-98
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II-G-47	7-27-98	K. Sawyer, private citizen	6-26-98
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II-G-50	7-27-98	J. Sheldon, private citizen	6-26-98
II-G-51	7-27-98	K. Snyder, private citizen	6-26-98
II-G-52	7-27-98	D. Steinmuller, private citizen	6-26-98
II-G-53	7-27-98	W. Stroessner, private citizen	6-26-98
II-G-54	7-27-98	R. Sunriver, Kaniksu Bioregional Council	6-26-98
II-G-55	7-27-98	M. Swoboda, private citizen	6-28-98
II-G-56	7-27-98	T. Tereszkiewicz, private citizen	6-26-98
II-G-57	7-27-98	M. Thomas, private citizen	6-29-98

<u>Document</u> Number	<u>Date Rcvd</u> in Docket	Commentor, Addressee, Title or Description, etc.	<u>Date of</u> Document
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II-G-60	7-27-98	Weberg family, private citizens	6-26-98
II-G-61	7-27-98	S. Williams, private citizen	6-26-98
II-G-62	7-27-98	D. Young, private citizen	6-26-98
II-G-63	7-27-98	A. Zuckerman, private citizen	6-29-98
II-G-64	8-3-98	C. Kelly, private citizen	5-14-98
II-G-65	8-3-98	L. Anderson-Carnahan, Region 4, to L. Wyborny, EPA, re letter from H. Rhodes, Florida Department of Environmental Protection	5-29-98
II-G-66	8-3-98	J. Frank, Marathon Ashland Petroleum LLC, Findlay, OH	6-12-98
II-G-67	8-3-98	J. Woodley, Jr., Commonwealth of Virginia, to M. Ward, Virginia Petroleum Council, copy to M. Oge, EPA	5-14-98
II-G-68	8-3-98	K. Brown, Ford Motor Company, to M. Oge, EPA, re Ford Letter of Response to Sulfur White Paper	6-2-98
II-G-69	8-3-98	C. Lieberman, private citizen, with attached article from The Oregonian	5-12-98

<u>Document</u> Number	<u>Date Rcvd</u> in Docket	Commentor, Addressee, Title or Description, etc.	<u>Date of</u> Document
II-G-70	8-3-98	R. Reynolds, Downstream Alternatives Inc. Comments on petition by American Automobile Manufacturers Association & Association of International Automobile Manufacturers	4-28-98
II-G-71	8-3-98	W. O'Keefe, American Petroleum Institute	7-20-98
II-G-72	7-24-98	U. Sternfels, President, National Petroleum Refiners Association	7-17-98

### Category II-J: Miscellaneous Federal Register Notices Published During Proposal Development

<u>Document</u> Number	<u>Date Rcvd</u> in Docket	Commentor, Addressee, Title or Description, etc.	<u>Date of</u> Document
II-J-01	4-23-98	Notice announcing availability of draft Tier 2 study & workshop on fuel sulfur issues	5-12-98